

STRADELLA-16-HB-M

~60° medium beam for industrial applications

TECHNICAL SPECIFICATIONS:

Dimensions	49.5 x 49.5 mm
Height	6.8 mm
Fastening	pin, screw
ROHS compliant	yes 🛈



MATERIAL SPECIFICATIONS:

Component STRADELLA-16-HB-M **Type** Multi-lens

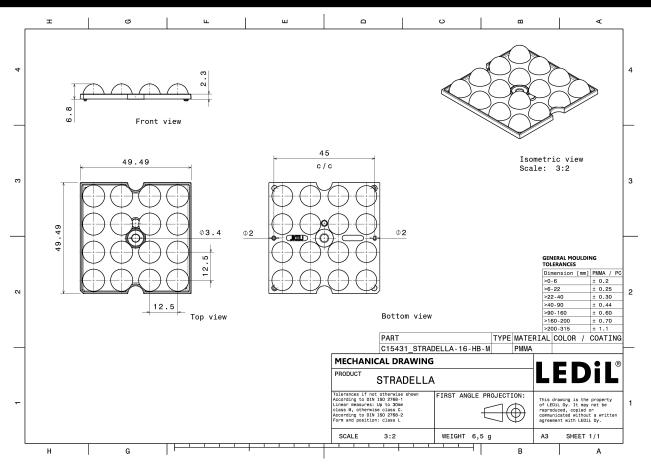
Material	Colour	Finish
PMMA	clear	

ORDERING INFORMATION:

Component C15431_STRADELLA-16-HB-M » Box size: 480 x 280 x 300 mm

Qty in box	MOQ	MPQ	Box weight (kg)
800	160	160	6.0





See also our general installation guide: <u>www.ledil.com/installation_guide</u>



CREE LEO FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	J Series 3030 63.0° / 116.0° 96 % 0.7 cd/lm 1 White	
ELECTRID LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	EHP-223.5x50-1604-xx-70-LS30-06-NTC 64.0° / 115.0° 96 % 0.7 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity	NFSx757D 65.0° / 114.0° 94 % 0.7 cd/lm	
LEDs/each optic Light colour Required compone	1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NFSx757G 61.0° / 115.0° 93 % 0.7 cd/lm 1 White	



ØNICHI/	\	90 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219D 65.0° / 116.0° 94 % 0.7 cd/lm 1 White	
ØNICHI/	۱	90*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW319B 72.0° / 121.0° 94 % 0.6 cd/lm 1 White ents:	
OSRAN		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	PrevaLED Brick MP 4x16 63.0° / 116.0° 94 % 0.7 cd/lm 1 White	
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Duris S5 (2 chip) 63.0° / 115.0° 94 % 0.7 cd/lm 1 Purple	



OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Duris S5 (Single chip) 59.0° / 114.0° 94 % 0.7 cd/lm 1 White nts:	97 75 60 60 60 60
OSRAM Opto Semiconductors		90 ⁴ 90 ⁴ 90 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	OSCONIQ S 3030 60.0° / 114.0° 94 % 0.7 cd/lm 1 White nts:	30 30 40 40 50 60 50 50 50 50 50 50 50 50 50 5
PHILLS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo FastFlex LED 4x16 DHE G4 61.0° / 115.0° 94 % 0.7 cd/lm 1 White	
SAMSI LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RM64 (LM301B) 62.0° / 116.0° 94 % 0.7 cd/lm 1 White	



SAMSI LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LM231 A/B 60.0° / 114.0° 94 % 0.7 cd/lm 1 White	20 20 00 00 00 00 00 00 00 00
SCIO LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XLE-S44XTEHE (XT-E HE) 63.0° / 120.0° 94 % 0.6 cd/lm 1 White	
SCIO LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XLE-S48XPG3 (XP-G3) 74.0° / 122.0° 94 % 0.6 cd/lm 1 White	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	SEOUL 3030 60.0° / 114.0° 94 % 0.7 cd/lm 1 White nts:	



seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	SEOUL DC 3030 61.0° / 117.0° 94 % 0.7 cd/lm 1 White ents:	
stoul senconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Z5M3 70.0° / 120.0° 94 % 0.6 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RLE 4x16 4000lm MP ADV2 OTD 61.0° / 116.0° 94 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RLE 4x8 2000lm MP ADV2 OTD 61.0° / 116.0° 94 % 0.7 cd/lm 1 White	



		50°
LED	J Series 5050 Round LES	
FWHM / FWTM	69.0° / 117.0°	75 75
Efficiency	96 %	200
Peak intensity	0.7 cd/lm	60°
LEDs/each optic	1	
Light colour	White	age 400 age
Required components:		\mathcal{K} / \mathcal{M} / \mathcal{M} / \mathcal{M} / \mathcal{M}
		15° 0° 15°
		90° 90°
LED	XP-G2	
FWHM / FWTM	71.0° / 123.0°	
Efficiency	94 %	60° 60°
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	42* 42*
Required components:		
		36* 36*
		(15 ⁵) 0 ⁶ 15 ⁵
		208
LED	XP-G2 HE	75
LED FWHM / FWTM	70.0° / 122.0°	79
LED FWHM / FWTM Efficiency	70.0° / 122.0° 94 %	
LED FWHM / FWTM Efficiency Peak intensity	70.0° / 122.0° 94 % 0.6 cd/lm	77 77 10 10 10 10 10 10 10 10 10 10 10 10 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	70.0° / 122.0° 94 % 0.6 cd/lm 1	200 200 200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	70.0° / 122.0° 94 % 0.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	70.0° / 122.0° 94 % 0.6 cd/lm 1	200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	70.0° / 122.0° 94 % 0.6 cd/lm 1	77 79 79 79 79 79 79 79 79 79 79 79 79 7
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	70.0° / 122.0° 94 % 0.6 cd/lm 1	77 75 75 400 75 75 400 75
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	70.0° / 122.0° 94 % 0.6 cd/lm 1	200 125 00 125 127 127 127 127 127 127 127 127 127 127
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	70.0° / 122.0° 94 % 0.6 cd/lm 1	40 30 - 30
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	70.0° / 122.0° 94 % 0.6 cd/lm 1 White	40 30 - 30
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	70.0° / 122.0° 94 % 0.6 cd/lm 1 White	40 30 - 30
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	70.0° / 122.0° 94 % 0.6 cd/lm 1 White XP-G3 71.0° / 123.0°	20- 20- 20- 20- 20- 20- 20- 20- 20- 20-
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	70.0° / 122.0° 94 % 0.6 cd/lm 1 White XP-G3 71.0° / 123.0° 94 %	20- 20- 20- 20- 20- 20- 20- 20- 20- 20-
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	70.0° / 122.0° 94 % 0.6 cd/lm 1 White XP-G3 71.0° / 123.0° 94 % 0.6 cd/lm	20° 10° 10° 10° 10°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	70.0° / 122.0° 94 % 0.6 cd/lm 1 White XP-G3 71.0° / 123.0° 94 % 0.6 cd/lm 1	20- 20- 20- 20- 20- 20- 20- 20- 20- 20-
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	70.0° / 122.0° 94 % 0.6 cd/lm 1 White XP-G3 71.0° / 123.0° 94 % 0.6 cd/lm	200 225 260 260 260 260 260 260 260 260 260 260
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	70.0° / 122.0° 94 % 0.6 cd/lm 1 White XP-G3 71.0° / 123.0° 94 % 0.6 cd/lm 1	200 200 20 20 20 20 20 20 20 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED EU FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	70.0° / 122.0° 94 % 0.6 cd/lm 1 White XP-G3 71.0° / 123.0° 94 % 0.6 cd/lm 1	200 200 20 20 20 20 20 20 20 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	70.0° / 122.0° 94 % 0.6 cd/lm 1 White XP-G3 71.0° / 123.0° 94 % 0.6 cd/lm 1	200 200 20 20 20 20 20 20 20 20



)S	90*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Square LES 68.0° / 118.0° 96 % 0.7 cd/lm 1 White	2 ¹ 2 ¹ 2 ¹ 2 ¹ 4 ⁰ 5 ¹ 6 ¹ 7 ¹ 8 ¹ 7 ¹ 8 ¹
)S	90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON CZ 64.0° / 124.0° 94 % 0.7 cd/lm 1 White	2 ⁴ 200 201 201 201 201 201 201 201 201 201
CONCEPTION OF CO	LUXEON CZ 62.0° / 122.0° 94 % 0.7 cd/lm 1 RGBW	
WICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NVSW519A 77.0° / 124.0° 93 % 0.5 cd/lm 1 White	5 ⁴ 5 ⁷ 5 ⁷ 5 ⁴ 5 ⁴ 5 ⁴ 5 ⁴ 5 ⁴ 5 ⁴ 5 ⁴ 5 ⁴



ΜΝΙCΗΙΛ		90° 90°
LED	NVSxE21A	
FWHM / FWTM	69.0° / 117.0°	75*
Efficiency	94 %	200
Peak intensity	0.6 cd/lm	60°
LEDs/each optic	1	
Light colour	White	gr dt
Required components:		
		15 0° 25°
OSRAM Opto Semiconductors		90° 90°
LED	Duris E5	
FWHM / FWTM	62.0° / 119.0°	2. 2.
Efficiency	94 %	60° 60°
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	er er
Required components:		
		200
		344 344
0000414		15° 0° 35°
OSRAM Opto Semiconductors		
Opto Semiconductors		90°
LED	OSCONIQ C 2424	90 ⁻
	OSCONIQ C 2424 61.0° / 116.0°	27 ⁻ 27 ⁻ 27 ⁻
LED		20
LED FWHM / FWTM	61.0° / 116.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	61.0° / 116.0° 95 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	61.0° / 116.0° 95 % 0.7 cd/lm	50° 0° 55° 200 60° 60° 57° 460 65°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	61.0° / 116.0° 95 % 0.7 cd/lm 1	50° 500 50° 60° 50° 60° 50° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	61.0° / 116.0° 95 % 0.7 cd/lm 1	200 200 00° 00° 000 000 000 000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	61.0° / 116.0° 95 % 0.7 cd/lm 1	200 200 200 200 200 200 000 000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	61.0° / 116.0° 95 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	61.0° / 116.0° 95 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	61.0° / 116.0° 95 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	61.0° / 116.0° 95 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	61.0° / 116.0° 95 % 0.7 cd/lm 1 White OSCONIQ P 3030 52.0° / 118.0°	20°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	61.0° / 116.0° 95 % 0.7 cd/lm 1 White OSCONIQ P 3030 52.0° / 118.0° 96 %	20°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	61.0° / 116.0° 95 % 0.7 cd/lm 1 White OSCONIQ P 3030 52.0° / 118.0° 96 % 0.8 cd/lm	20°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	61.0° / 116.0° 95 % 0.7 cd/lm 1 White OSCONIQ P 3030 52.0° / 118.0° 96 % 0.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	61.0° / 116.0° 95 % 0.7 cd/lm 1 White OSCONIQ P 3030 52.0° / 118.0° 96 % 0.8 cd/lm	20°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	61.0° / 116.0° 95 % 0.7 cd/lm 1 White OSCONIQ P 3030 52.0° / 118.0° 96 % 0.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	61.0° / 116.0° 95 % 0.7 cd/lm 1 White OSCONIQ P 3030 52.0° / 118.0° 96 % 0.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	61.0° / 116.0° 95 % 0.7 cd/lm 1 White OSCONIQ P 3030 52.0° / 118.0° 96 % 0.8 cd/lm 1	



OSRAM		
Opto Semiconductors		90° 90°
LED	OSLON Square CSSRM2/CSSRM3	75 75
FWHM / FWTM	73.0° / 120.0°	
Efficiency	94 %	60° - 200 - 60°
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	Red	95° 400
Required components:		
		30° 25° 36°
SAMSUN	IG	90° 90°
LED	LH181B	
FWHM / FWTM	67.0° / 118.0°	75* 73*
Efficiency	94 %	
Peak intensity	94 % 0.7 cd/lm	60 ⁴
LEDs/each optic	1	
Light colour	White	400 kg
Required components:	White	
Required components.		
		36* 36*
		15° 0° 15°
SAMSIIN	IG	225 ⁴ 0 ⁶ 125 ⁴
SAMSUN		90 ¹ 0 ² 25 ²
LED	LH181B	35 36 25 4 25 4 25 4 25
LED FWHM / FWTM	LH181B 60.0° / 117.0°	
LED FWHM / FWTM Efficiency	LH181B 60.0° / 117.0° 94 %	
LED FWHM / FWTM Efficiency Peak intensity	LH181B 60.0° / 117.0° 94 % 0.7 cd/lm	20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH181B 60.0° / 117.0° 94 % 0.7 cd/lm 1	200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH181B 60.0° / 117.0° 94 % 0.7 cd/lm	20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH181B 60.0° / 117.0° 94 % 0.7 cd/lm 1	20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH181B 60.0° / 117.0° 94 % 0.7 cd/lm 1	20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH181B 60.0° / 117.0° 94 % 0.7 cd/lm 1	75 66 67 69 69 69 69
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH181B 60.0° / 117.0° 94 % 0.7 cd/lm 1	20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH181B 60.0° / 117.0° 94 % 0.7 cd/lm 1 White	75 66 67 69 69 69 69
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH181B 60.0° / 117.0° 94 % 0.7 cd/lm 1 White	75 66 67 69 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH181B 60.0° / 117.0° 94 % 0.7 cd/lm 1 White	75 66 67 69 69 69 69
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM	LH181B 60.0° / 117.0° 94 % 0.7 cd/lm 1 White I LH231B 62.0° / 114.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency	LH181B 60.0° / 117.0° 94 % 0.7 cd/lm 1 White LH231B 62.0° / 114.0° 95 %	30 30 30 30 60 60 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency Peak intensity	LH181B 60.0° / 117.0° 94 % 0.7 cd/lm 1 White I LH231B 62.0° / 114.0° 95 % 0.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH181B 60.0° / 117.0° 94 % 0.7 cd/lm 1 White LH231B 62.0° / 114.0° 95 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH181B 60.0° / 117.0° 94 % 0.7 cd/lm 1 White I LH231B 62.0° / 114.0° 95 % 0.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH181B 60.0° / 117.0° 94 % 0.7 cd/lm 1 White LH231B 62.0° / 114.0° 95 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SANNSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH181B 60.0° / 117.0° 94 % 0.7 cd/lm 1 White LH231B 62.0° / 114.0° 95 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SANNSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH181B 60.0° / 117.0° 94 % 0.7 cd/lm 1 White LH231B 62.0° / 114.0° 95 % 0.7 cd/lm 1	



SAMSUN		
		90° 90°
LED FWHM / FWTM	LH231B 62.0° / 114.0°	75. 25
Efficiency	87 %	
Peak intensity	0.7 cd/lm	60°60°
LEDs/each optic	1	
Light colour	White	5°
Required components:	Wille	
Protective plate	, glass	
		15° 0° 15°
SAMSUN	IG	90* 90*
LED	LH351B	
FWHM / FWTM	66.0° / 119.0°	
Efficiency	94 %	501 500
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	450 450
Required components:		
		~~~~~
		300 300
SAMSUN		125 ⁰ 0 ⁰ 125 ³
		90° 90°
LED	LH351C	73. 73.
FWHM / FWTM	79.0° / 119.0°	
Efficiency	94 %	60. 60.
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	42
Required components:		
		600
		30" 30" 30"
SAMSUN	IG	30°
LED	LM101B	75
LED FWHM / FWTM	LM101B 63.0° / 119.0°	
LED FWHM / FWTM Efficiency	LM101B 63.0° / 119.0° 94 %	200 (c)
LED FWHM / FWTM Efficiency Peak intensity	LM101B 63.0° / 119.0° 94 % 0.7 cd/lm	73 ¹ 60 ⁴ 200 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LM101B 63.0° / 119.0° 94 % 0.7 cd/lm 1	73 60 ⁻¹ 200 60 ⁻¹ 60 60 60 60 60 60 60 60 60 60 60 60 60 6
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LM101B 63.0° / 119.0° 94 % 0.7 cd/lm	71 50 57 57 57 57 57 50 50 50 50 50 50 50 50 50 50 50 50 50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LM101B 63.0° / 119.0° 94 % 0.7 cd/lm 1	22
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LM101B 63.0° / 119.0° 94 % 0.7 cd/lm 1	72 60 67 67 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LM101B 63.0° / 119.0° 94 % 0.7 cd/lm 1	22 60 67 60 60 60



SAMSUN	IG	20 ⁴
LED		
ED FWHM / FWTM	LM301B 63.0° / 116.0°	23. 23.
Efficiency	89 %	200
Peak intensity	0.7 cd/lm	60° 60°
LEDs/each optic	1	
Light colour	White	93° 40 42°
Required components:		
Protective plate	e, glass	
		30°
SAMSUN	IG	90 ⁴ 90 [*]
LED	LM301B	
FWHM / FWTM	62.0° / 120.0°	3.
Efficiency	94 %	200 60° 60°
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	400 az*
Required components:		
		30° 33°
		150 00 255
SAMSUN	IG	90* 90*
LED	LM302D	
FWHM / FWTM	64.0° / 118.0°	75.
Efficiency	96 %	200
Peak intensity		en*
	0.7 cd/lm	50**
		00.
LEDs/each optic	0.7 cd/lm	a. 100
	0.7 cd/lm 1	er er
LEDs/each optic Light colour	0.7 cd/lm 1	er 10. er
LEDs/each optic Light colour	0.7 cd/lm 1	er 100 er
LEDs/each optic Light colour	0.7 cd/lm 1	er 100 er
LEDs/each optic Light colour Required components:	0.7 cd/lm 1	
LEDs/each optic Light colour Required components:	0.7 cd/lm 1	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
LEDs/each optic Light colour Required components: seour semiconductor	0.7 cd/lm 1 White	
LEDs/each optic Light colour Required components: seoul semiconductor LED	0.7 cd/lm 1 White SEOUL DC 3030C	27 29 29 20 00 00 00 00 00 00 00 00 00
LEDs/each optic Light colour Required components: seoul semiconductor LED FWHM / FWTM	0.7 cd/lm 1 White SEOUL DC 3030C 60.0° / 119.0°	20 20 20 20 20 20 20 20 20 20
LEDs/each optic Light colour Required components: seour semiconductor LED FWHM / FWTM Efficiency	0.7 cd/lm 1 White SEOUL DC 3030C 60.0° / 119.0° 96 %	20 20 20 20 20 20 20 20 20 20
LEDs/each optic Light colour Required components: seour semiconductor LED FWHM / FWTM Efficiency Peak intensity	0.7 cd/lm 1 White SEOUL DC 3030C 60.0° / 119.0° 96 % 0.7 cd/lm	
LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	0.7 cd/lm 1 White SEOUL DC 3030C 60.0° / 119.0° 96 % 0.7 cd/lm 1	20 20 20 20 20 20 20 20 20 20
LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	0.7 cd/lm 1 White SEOUL DC 3030C 60.0° / 119.0° 96 % 0.7 cd/lm	20 20 20 20 20 20 20 20 20 20
LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	0.7 cd/lm 1 White SEOUL DC 3030C 60.0° / 119.0° 96 % 0.7 cd/lm 1	<u>H</u> ⁴ <u>H</u>
LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	0.7 cd/lm 1 White SEOUL DC 3030C 60.0° / 119.0° 96 % 0.7 cd/lm 1	20 20 20 20 20 20 20 20 20 20
LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	0.7 cd/lm 1 White SEOUL DC 3030C 60.0° / 119.0° 96 % 0.7 cd/lm 1	20 20 20 20 20 20 20 20 20 20



SEOUL SEOUL SEMICONDUCTOR		95 ⁴ 95 ⁴
LED	SEOUL DC 5050 6V	
FWHM / FWTM	67.0° / 119.0°	
Efficiency	94 %	er 200
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	er 40e
Required components	3:	
		30° 32° 4° 33°
SEOUL		50 ⁴ 50 ⁴
	Z8Y22T	94 97
SEOUL SEMICONDUCTOR	Z8Y22T 66.0° / 119.0°	94 ⁺ 97 ⁺ 75 ⁺
seoul semiconductor		90 ⁺
seoul semiconductor LED FWHM / FWTM	66.0° / 119.0°	61 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200
seoul semiconductor LED FWHM / FWTM Efficiency	66.0° / 119.0° 94 %	gr 220
scoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	66.0° / 119.0° 94 % 0.7 cd/lm	gr 400 gr
stour semiconbuctor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	66.0° / 119.0° 94 % 0.7 cd/lm 1 White	94
stour semiconbuctor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	66.0° / 119.0° 94 % 0.7 cd/lm 1 White	
stour semiconbuctor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	66.0° / 119.0° 94 % 0.7 cd/lm 1 White	50 50 50 50 50 50 50 50 50 50 50 50 50 5
scoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	66.0° / 119.0° 94 % 0.7 cd/lm 1 White	



#### **GENERAL INFORMATION:**

NOTE: The typical beam angle will be changed by different color, chip size and chip position tolerance. The typical total beam angle is the full angle measured where the luminous intensity is half of the peak value.

#### MATERIALS:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

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Shipping locations Salo, Finland Hong Kong, China

#### Distribution Partners www.ledil.com/ where_to_buy